

Message Text

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TO AMEMBASSY MOSCOW

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E.O. 11652:

TAGS: US,UR,TECH,TGEN,ENRG

SUBJECT: US-USSR ATOMIC ENERGY AGREEMENT (07.0300)
VARIOUS TOPICS: 1978 PROGRAM
REFTEL MOSCOW 0813

1. PLEASE DELIVER FOLLOWING LETTER TO E. P. VELIKHOV
(KURCHATOV) WITH COPIES TO G. A. ELISEEV (KURCHATOV) AND
D. F. KHOKHLOVA (SCAE).

DR. E. P. VELIKHOV
STATE COMMITTEE FOR THE UTILIZATION
--OF ATOMIC ENERGY
KURCHATOV INSTITUTE OF ATOMIC ENERGY
46 ULITSA KURCHATOVA
MOSCOW, USSR

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DEAR EVGENIY:

I WOULD LIKE TO REPLY TO YOUR RECENT LETTER ON THE 1978
EXCHANGE PROGRAM AND TO PROVIDE SOME NEW IDEAS FOR
CONSIDERATION.

TWO WEEKS AGO WE SENT YOU A CABLE AGREEING TO CONTINUE OUR

JOINT WORK ON IMPLoding LINER SYSTEMS UNDER EXCHANGE

NUMBER 11 - PULSED HIGH BETA SYSTEMS - AND REQUESTED THAT THE APPROPRIATE SOVIET DELEGATION SHOULD VISIT LOS ALAMOS AS SOON AS POSSIBLE. WE HOPE DR. ALIKHANOV RECEIVED THE PACKAGE OF CALCULATIONS AND DISCUSSION THAT WAS SENT FROM LOS ALAMOS VIA THE U.S. EMBASSY IN MOSCOW. WE HAVE NOT YET RECEIVED CORRESPONDING DATA THAT WAS TO BE PROVIDED BY THE SOVIET SIDE IN DECEMBER. IN GENERAL WE BELIEVE THAT THE EFFECTIVENESS OF OUR EXCHANGE MEETINGS WILL BE INCREASED GREATLY IF THERE IS A GOOD EXCHANGE OF DATA AND IDEAS BEFOREHAND.

WE AGREE TO POSTPONE THE EXCHANGE ON SURFACE EFFECTS (NO. 19) UNTIL 1979.

WE AGREE TO COMBINE EXCHANGES NUMBER 6 - ANALYSIS OF TOKAMAK AND STELLARATOR RESULTS - AND NUMBER 7 - PLASMA THEORY WORKSHOP. THE RESULTANT EXCHANGE SHOULD BE FOR 6 PEOPLE FOR 3 WEEKS IN THE THIRD QUARTER.

FOR THE EXCHANGE ON FUELING A FUSION REACTOR (NO. 16) THE U.S. DELEGATION WILL CONSIST OF THOSE LISTED BELOW.

-----S. GRALNIK - PPPL - BORN [Sensitive Information Removed Per NARA 08 DEC 2104] AT NEW YORK CITY, NEW YORK
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-----S. L. MILORA - ORNL - BORN [Sensitive Information Removed Per NARA 08 DEC 2014] AT HAZLETON, PENNSYLVANIA

-----S. BURNETT - GENERAL ATOMIC - BORN [Sensitive Information Removed Per NARA 08 DEC 2014] AT NASHVILLE, TENNESSEE

-----J. HAMMEL - LASL - BORN 5 JUNE 1921 AT HUTCHINSON, KANSAS

OUR SUGGESTED TOPICS FOR DISCUSSION ARE SUMMARIZED BELOW. THESE WERE GIVEN TO DR. ELISEEV IN THE JANUARY 27, 1978, PHONE CALL AND ARE QUITE SIMILAR TO THE SOVIET SUGGESTIONS AS OUTLINED AT THAT TIME.

-----A) FABRICATION AND ACCELERATION OF DT PELLETS
PELLET ABLATION THEORIES

-----B) GAS BLANKETS - NEUTRAL PARTICLE TRANSPORT IN PLASMAS - GAS BLANKET CONFIGURATIONS AND MODELING

-----C) PLASMA GUNS - PLASMA GUN TECHNOLOGY, PLASMOID

INJECTION THEORIES, PLASMA GUN INJECTION EXPERIMENTS

-----D) PLASMA FUELING EFFECTS - TRANSPORT EFFECTS,
SYNERGISTIC EFFECTS, STABILITY EFFECTS

-----E) FUELING REQUIREMENTS - ADVANCED FUELING, USE OF
FUELING FOR PROFILE MODIFICATION

WE SUGGEST THE DATES OF MAY 29 - JUNE 9, 1978, FOR THIS
EXCHANGE.

THE EXCHANGE ON STRONG CURRENT RELATIVISTIC ELECTRON
BEAMS (NO. 24) WILL START ON MAY 8, 1978. THE TWO WEEK
VISIT WILL START AT CORNELL AND THEN PROCEED TO THE NAVAL
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RESEARCH LABORATORY AND UNIVERSITY OF MARYLAND. THE FULL
AGENDA IS STILL IN PREPARATION. IT MAY BE ADVISABLE TO
ALSO INCLUDE THE MAY 15 - 18 INTERNATIONAL CONFERENCE ON
PLASMA SCIENCE IN MONTEREY. ELECTRON AND ION BEAMS WILL
BE A MAJOR TOPIC OF DISCUSSION.

THE EXCHANGE ON DIAGNOSTICS OF HIGH TEMPERATURE PLASMAS
SHOULD TAKE PLACE IN JUNE. AN AGENDA IS BEING PREPARED
AND WILL BE PROVIDED LATER.

FURTHER DETAILS ON U.S. SUGGESTIONS FOR COOPERATION IN
MAGNETIC MIRROR RESEARCH WILL BE SENT SEPARATELY.

WE AGREE THAT THE MEETING OF THE JOINT FUSION POWER
COORDINATING COMMITTEE SHOULD TAKE PLACE IN THE USSR FROM
MAY 15 TO MAY 23. OUR PRESENT THINKING IS THAT WE WOULD
LIKE TO VISIT YOUR LABORATORIES AT KHARKOV AND NOVOSIBIRSK
ON THIS TRIP SINCE THE COMMITTEE HAS NOT VISITED THESE
LOCATIONS FOR AT LEAST FOUR YEARS. WE WOULD ALSO LIKE TO
VISIT THE MAJOR RESEARCH PROGRAMS AT THE KURCHATOV AND
LEBEDEV INSTITUTES IN MOSCOW.

BEST REGARDS,

EDWIN E. KINTNER, DIRECTOR
OFFICE OF FUSION ENERGY
USDOE
VANCE

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